

### **Amendments to the Claims**

Please amend claims 1-3, 5-9 and 17-19 as shown in the following list of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1     1.     (currently amended) An optical-signal computer mouse receiver,  
2     comprising:  
3                 an optical imaging array sensor operable to capture images of a  
4     target surface, the optical imaging array sensor being further operable to receive an  
5     optical signal from an optical-signal emitter communicatively coupled to an  
6     electronic system, the optical-signal emitter being external to the computer mouse;  
7     and  
8                 a processor operable to calculate a vector value that represents a  
9     movement of the computer mouse receiver using the images captured by the optical  
10    imaging array during a cursor controlling operation, the processor being further  
11    operable to implement a performance characteristic value specified by the optical  
12    signal received by the optical imaging sensor array during programming of  
13    characteristic settings of the computer mouse receiver.
  
- 1     2.     (currently amended) The computer mouse receiver of claim 1, further  
2     comprising a transmitter operable to communicate a state signal identifying a state  
3     of the computer mouse receiver to the electronic system.
  
- 1     3.     (currently amended) A system, comprising:  
2                 an optical-signal generator;  
3                 an optical-signal emitter coupled to the generator; and  
4                 an optical-signal computer mouse receiver having a performance  
5     characteristic set to a first value, the computer mouse receiver including an optical  
6     imaging array sensor to receive from the emitter an optical signal and to capture  
7     images of a target surface, the optical-signal emitter being external to the computer  
8     mouse, the computer mouse receiver further including a processor operable to  
9     calculate a vector value that represents a movement of the computer mouse receiver

10 using the images captured by the optical imaging array during a cursor controlling  
11 operation, the processor being further operable to set the performance  
12 characteristic to a second value in response to the optical signal received by the  
13 optical imaging sensor array during programming of characteristic settings of the  
14 computer mouse receiver.

1 4. (original) The system of claim 3, wherein the generator comprises a  
2 computer system.

1 5. (currently amended) The system of claim 3, wherein the emitter comprises a  
2 video-display monitor configured to display said optical signal to be received by the  
3 optical imaging array sensor of the optical-signal computer mouse receiver to set  
4 the performance characteristic to the second value in response to the optical signal.

1 6. (currently amended) The system of claim 3 wherein the computer mouse  
2 ~~receiver~~ is operable to generate a state signal identifying a state of the computer  
3 mouse receiver.

1 7. (currently amended) The system of claim 6 wherein the computer mouse  
2 ~~receiver~~ is further operable to communicate the state signal to the generator.

1 8. (currently amended) The system of claim 6, wherein the emitter comprises a  
2 state-signal receiver operable to receive the state signal from the optical-signal  
3 computer mouse receiver and provide the state signal to the generator.

1 9. (currently amended) The system of claim 3, wherein the computer mouse is  
2 ~~receiver comprises~~ a wireless optical mouse.

1 10. (original) The system of claim 3, wherein a performance associated with the  
2 characteristic is displayable by the generator.

1 11. (original) The system of claim 3, wherein the performance characteristic  
2 comprises a frame rate.

1 12. (original) The system of claim 3, wherein the performance characteristic  
2 comprises an inactivity-period threshold.

1 13. (original) The system of claim 6, wherein the state comprises velocity  
2 relative to a surface.

1 14. (original) The system of claim 6, wherein:  
2 the state signal comprises a characteristic having first and second  
3 values; and  
4 the first and second state-signal characteristic values respectively  
5 correspond to the first and second performance-characteristic values.

1 15. (original) The system of claim 3, wherein the optical signal specifies the  
2 second value.

1 16. (original) The system of claim 6, wherein the state signal specifies the  
2 second value.

1 17. (currently amended) A system, comprising:  
2 an optical-signal emitter operable to be coupled to an electronic  
3 system; and  
4 an optical-signal computer mouse ~~receiver~~ having a performance  
5 characteristic set to a first value, the computer mouse ~~receiver~~ including an optical  
6 imaging array sensor to receive from the emitter an optical signal and to capture  
7 images of a target surface, the emitter being external to the computer mouse, the  
8 computer mouse ~~receiver~~ further including a processor operable to calculate a  
9 vector value that represents a movement of the computer mouse ~~receiver~~ using the  
10 images captured by the optical imaging array during a cursor controlling operation,  
11 the processor being further operable to set the performance characteristic to a  
12 second value in response to the optical signal received by the optical imaging sensor  
13 array during programming of characteristic settings of the computer mouse  
14 ~~receiver~~.

1 18. (currently amended) A method of programming an optical-signal computer  
2 mouse receiver, comprising:  
3 generating an optical signal to be received by an optical imaging  
4 array sensor of the optical-signal computer mouse receiver from an optical-signal  
5 emitter, the optical-signal emitter being external to the computer mouse, the  
6 computer mouse receiver having a performance characteristic set to a first value,  
7 the optical signal operable to set the performance characteristic to a second value,  
8 the optical imaging array sensor being operable to also capture images of a target  
9 surface to calculate a vector value to determine a movement of the computer mouse  
10 receiver; and  
11 displaying the optical signal on a video-display monitor of the  
12 optical-signal emitter to be received by the optical imaging array sensor of the  
13 optical-signal computer mouse receiver to set the performance characteristic to the  
14 second value in response to the optical signal.

1 19. (currently amended) A method implemented by a computer mouse receiver  
2 having a performance characteristic set to a first value, comprising:  
3 communicating a state signal identifying a state of the computer  
4 mouse receiver to an electronic system;  
5 receiving an optical signal from an emitter communicatively  
6 coupled to the electronic system at an optical imaging array sensor of the computer  
7 mouse receiver, the optical-signal emitter being external to the computer mouse, the  
8 optical signal operable to set the performance characteristic to a second value;  
9 capturing images of a target surface at the optical imaging array  
10 sensor; and  
11 calculating a vector value that represents a movement of the  
12 computer mouse receiver using the images captured by the optical imaging array.